

## CLAIM

1. A method for manufacturing a heating pad using an electrically conducting polymer suitable for use in maintaining patients' body temperatures, comprising:

5        a chemical polymerization process in which a cloth is treated with a solution containing dopants, distilled polymerizable monomers and an oxidizer at a high temperature under a high pressure to coat an electrically conducting polymer membrane onto the cloth, said cloth being composed of synthetic fibers such as nylon or polyester, or a combination of synthetic fibers and natural fibers;

10        an electrical polymerization process in which the cloth is washed with water to detach weakly bonded polymeric materials therefrom and covered with a magnetic patterning sheet such that a polymeric coating is allowed to grow thicker on the exposed areas of the cloth; and

15        an instrumenting process in which a temperature sensor and controller and a portable power supply are provided to the cloth.

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